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book to furnish sources for detailed theoretical approaches, and expanded treatment of applications. This text is meant to be a self-contained, elementary introduction to Partial

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Differential Equations,
assuming only advanced
differential calculus and
some basic LP theory.
Although the basic
equations treated in this
book, given its scope, are

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linear, we have made an attempt to approach them from a nonlinear perspective. Chapter I is focused on the Cauchy-Kowaleski theorem. We discuss the notion of

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characteristic surfaces and use it to classify partial differential equations. The discussion grows out of equations of second order in two variables to equations of

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second order in N variables to p.d.e.'s of any order in N variables. In Chapters II and III we study the Laplace equation and connected elliptic theory. The existence of

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solutions for the Dirichlet problem is proven by the Perron method. This method clarifies the structure of the sub(super)harmonic functions and is closely

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related to the modern notion of viscosity solution. The elliptic theory is complemented by the Harnack and Liouville theorems, the simplest version of Schauder's

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estimates and basic LP
-potential estimates.
Then, in Chapter III, the
Dirichlet and Neumann
problems, as well as
eigenvalue problems for
the Laplacian, are cast in

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terms of integral equations. This requires some basic facts concerning double layer potentials and the notion of compact subsets of LP , which we present.

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